



**World-First!**

**Master-PUR Trivolution - A superpowered combination!**

**Antistatic + Hardly Inflammable + Microbe-Resistant**

 **MASTERFLEX**  
Connecting Values



## Master-PUR Trivolution

### A Powerhouse with Unbeatable Features!

**Master-PUR Trivolution** is the brand new superhero in the Masterflex product range and offers unbeatable **antistatic, hardly inflammable & microbe-resistant** features.

The **Master-PUR Trivolution** series is a further development of the industry-renowned Master-PUR hose range, which is a direct result of our customers' wishes. The **Master-PUR Trivolution** consists of pure polyester-polyurethane (PU). The polyester-PU applied here is equipped with much improved mechanical features in comparison to the more often-used and conventional polyether-PU.

The optimised hose series is available in the following versions:

- Master-PUR L-F Trivolution (0.4 - 0.5 mm)
- Master-PUR L Trivolution (0.7 mm)
- Master-PUR H Trivolution (1.4 mm)
- Master-PUR HÜ Trivolution (1.7 mm)
- Master-PUR HX Trivolution (1.7 - 2.1 mm)



### Result:

The combined powers of the **Master-PUR Trivolution** create a quantifiable added value and at no extra cost!

Even with its newly modified raw material mix, the high-performance materials guarantee unbeatable product life-cycles, making the all-new **Master-PUR Trivolution** highly versatile & universally applicable.

### User Benefits:

- Thanks to its combination of antistatic, hardly inflammable and microbe-resistant features, it offers a huge spectrum of applications for the widest range of media
- The **Master-PUR Trivolution** offers added value at no extra cost compared to previous models in the Master-PUR range
- The polyester-PU applied provides even greater mechanical features than the conventional and often-used Polyether-PU
- The special new raw material mixture of the **Master-PUR Trivolution** makes it officially "hardly inflammable" according to DIN 4102 B1
- The **Master-PUR Trivolution** fulfills all requirements of the TRGS 727 & ATEX 2014/34 EU guideline for the avoidance of ignition hazards due to electrostatic charges
- Profit directly from the simplified product selection, highly improved product availability and reduced storage costs
- Playing it safe just got easier with this new and certified powerhouse of a product

# All the facts at a glance:



**Master-PUR Trivolution Series:**  
**PU Suction & Transport Hose,**  
**permanent antistatic, hardly in-**  
**flammable acc. to DIN 4102 B1,**  
**microbe-resistant**

## Versions:

Master-PUR L-F / L / H / HÜ / HX Trivolution

## Material

Spiral: spring steel wire

Wall: pure polyester-polyurethane

Wall thickness: dep. on version

## Applications (dep. on version)

- Transport of fine-grained particles, such as dust and powder
- Suction & transport hose for highly abrasive solids, liquids and gases,
- Oil mist extraction/suction
- heavy-duty to reinforced versions for suction of coarse-grained media with a high flow-rate
- Granule transport hose
- Transport of woodchips & splinters
- for silo vehicles & loading stations
- for problematic transport goods such as sand, gravel, grain & granules

## Properties

- hardly inflammable acc. to DIN 4102 B1
- permanent antistatic, surface resistance  $R_o < 10^9$  acc. to DIN EN iso 8031
- fulfills all requirements of the TRGS 727 & ATEX 2014/34 EU guideline for the avoidance of ignition hazards due to electrostatic charges
- microbe-resistant
- oil/petroleum-proof
- highly abrasion-resistant
- good flexibility
- halogen/plasticizer-free
- good chemical resistance
- generally good UV/ozone resistance
- high tensile strength (dep. on version)

## Temperature Range

- -40°C to +90°C
- peaks to +125°C

Depending on version and hose type, there are a wide range of connectors available:



Master-Grip  
Hose Clamp



Master-Grip  
Quick-Grip Clamp



Hose Clamp with  
Bolts



Hose Reducer,  
symmetrical



Combiflex PU  
Fixed Flange



Hose Connector



PU-Cuff,  
electroconductive



Combiflex PU  
Cone Flange,  
screwable/fixe



Combiflex PU  
Threaded Socket,  
screwable/fixe



Combiflex PU  
Swivel Flange

# The new Superheroes from Masterflex

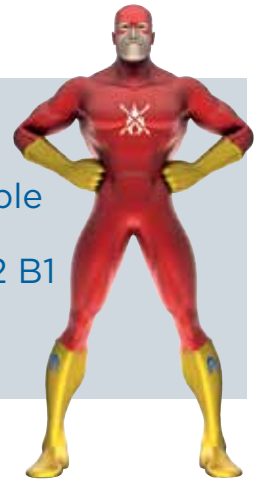
Antistatic  
acc. to  
TRBS 2153



The hoses in the new **Master-PUR Trivolution** series are all antistatic. This is thanks to a non-migrating permanent antistatic agent now included in the raw material mixture. This means the hose series accords to ATEX/TRBS 2153 ("Avoidance of ignition hazards due to electrostatic charges") and can be freely applied for all such applications. The new hoses are especially suitable for processing plants in Ex-zones and for transporting flammable powder and bulk goods.

The raw material applied in the **Master-PUR Trivolution** hose series is equipped with a special flame-retardant additive and therefore makes the entire hose series "hardly flammable" acc. to DIN 4102 B1. The new **Master-PUR Trivolution** from Masterflex is made from abrasion-resistant polyester-PU in contrast to most other competitor products.

Hardly  
Flammable  
acc. to  
DIN 4102 B1



Microbe-  
Resistant



The polyester-polyurethane applied in the **Master-PUR Trivolution** hose series is, thanks to its special mixture of raw materials and additives, extremely resistant to microbe-induced corrosion. In contrast, polyester-polyurethane without such additional microbe protection runs the risk of being destroyed through longer exposure to microbial attack.



Masterflex SE  
Willy-Brandt-Allee 300  
45891 Gelsenkirchen  
Germany  
Tel +49 209 97077-0  
Fax +49 209 97077-33  
www.masterflex.de  
info@masterflex.de

A MASTERFLEX GROUP COMPANY

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